

IN THE CLAIMS:

1. (Canceled)
2. (Canceled)
3. (Canceled)
4. (Currently amended) A molecule capable of transferring energy to maximize a rate of attaining chemiluminescence in a fluorophore, ~~The molecule of claim 1~~ wherein said ~~unstable, high-energy~~ molecule is formed from reacting 1,1-oxalyl(2-methyl)diimidazole (OD2MI) with hydrogen peroxide.
5. (Currently amended) A molecule capable of transferring energy to maximize a rate of attaining chemiluminescence in a fluorophore, ~~The molecule of claim 1~~ wherein said ~~unstable, high-energy~~ molecule is formed from reacting oxalyl(4-methyl)diimidazole (OD4MI) with hydrogen peroxide.
6. (Canceled)
7. (Canceled)
8. (Canceled)

9. (Canceled)

10. (Previously presented) A method to produce a methyl substituted molecule comprising the steps of: adding a quantity of 2-methylimidazole in an acetate solvent to a quantity of bis(2,4,6 trichlorophenyl) oxylate thereby yielding a methyl substituted oxylate, then reacting said methyl substituted oxalate with a quantity of hydrogen peroxide thereby producing a high energy, unstable molecule, and finally collecting said high energy, unstable molecule for use to provide energy for fluorescence.

11. (Previously presented) The method of claim 10 wherein the pH is in the range of 5.5 to 10.5.

12. (Previously presented) The method of claim 10 wherein said methyl substituted molecule is OD2MI.

13. (Previously presented) The method of claim 10 wherein said methyl substituted molecule is OD4MI.